

Product datasheet

Alexa Fluor® 647 Anti-COX4 + COX4L2 antibody [10G8D12C12] ab198318

1 Image

Overview

Product name	Alexa Fluor® 647 Anti-COX4 + COX4L2 antibody [10G8D12C12]
Description	Alexa Fluor® 647 Mouse monoclonal [10G8D12C12] to COX4 + COX4L2
Host species	Mouse
Conjugation	Alexa Fluor® 647. Ex: 652nm, Em: 668nm
Tested applications	Suitable for: ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Full length native protein (purified) corresponding to Cow COX4 + COX4L2.
Positive control	ICC/IF: HeLa cells.
General notes	<p>Alexa Fluor® is a registered trademark of Molecular Probes, Inc, a Thermo Fisher Scientific Company. The Alexa Fluor® dye included in this product is provided under an intellectual property license from Life Technologies Corporation. As this product contains the Alexa Fluor® dye, the purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). As this product contains the Alexa Fluor® dye the sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: in manufacturing; (ii) to provide a service, information, or data in return for payment (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are sold for use in research. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, 5781 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@thermofisher.com.</p>

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at +4°C. Avoid freeze / thaw cycle. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS
Purity	IgG fraction
Purification notes	This antibody was produced in vitro using hybridomas grown in serum-free medium, and then purified by biochemical fractionation. ab110261 was judged as near homogeneity by SDS PAGE.
Clonality	Monoclonal
Clone number	10G8D12C12
Isotype	IgG2a
Light chain type	kappa

Applications

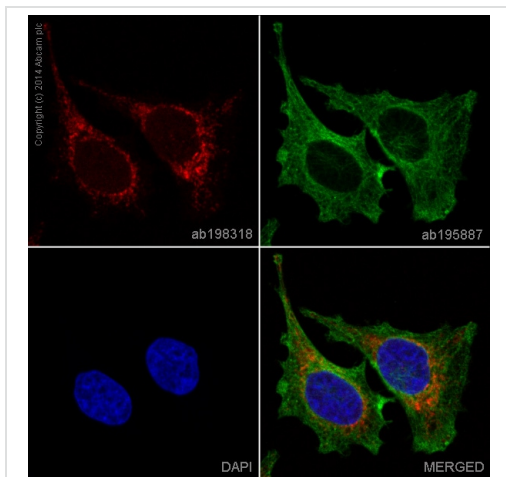
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab198318 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/50.

Target

Relevance	Cytochrome C Oxidase is located in the inner mitochondrial membrane and is the terminal enzyme complex of the mitochondrial electron transport chain. It collects electrons that are transferred from reduced cytochrome C and donates them to molecular oxygen, which is then reduced to water. It is composed of cytochrome A and cytochrome B, two copper atoms, and 13 different protein subunits, three of which are encoded by the mitochondrial DNA and ten others by nuclear DNA (mammals).
Cellular localization	Mitochondrial inner membrane

Images



Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 647 Anti-COX4 + COX4L2 antibody [10G8D12C12] (ab198318)

ab198318 staining COX4 + COX4L2 in HeLa cells. The cells were fixed with 100% methanol (5 min), permeabilised in 0.1% Triton X-100 for 5 minutes and then blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with ab198318 at 1/50 dilution (shown in red) and **ab195887**, Mouse monoclonal [DM1A] to alpha Tubulin (Alexa Fluor® 488, shown in green) at 1/167 dilution overnight at +4°C. Nuclear DNA was labelled in blue with DAPI.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

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